

FCC Appendix RF Test Data for BLE

FCC ID : 2BQEA-YPL-15

Company : SHENZHEN YOWEXA MEASUREMENT
TECHNOLOGY CO.,LTD

EUT : Smart Bluetooth Temperature Probe

Model Number : YPL-15

Report No. : CTA25112600901

Reviewed By : Eric Wang

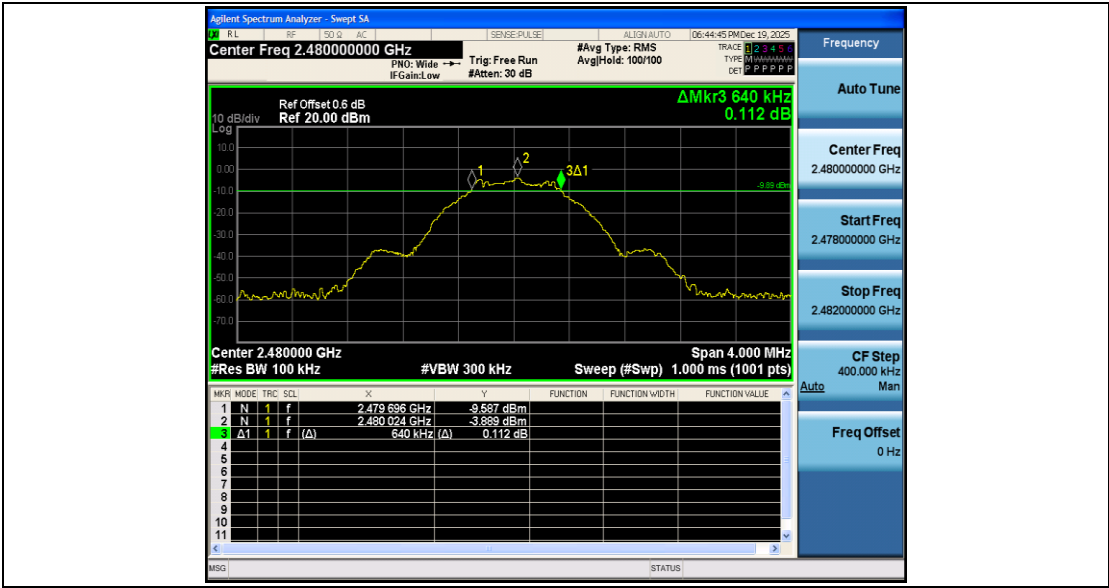
Appendix A: DTS Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	DTS BW [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	0.632	2401.700	2402.332	0.5	PASS
		2440	0.636	2439.700	2440.336	0.5	PASS
		2480	0.640	2479.696	2480.336	0.5	PASS

Test Graphs



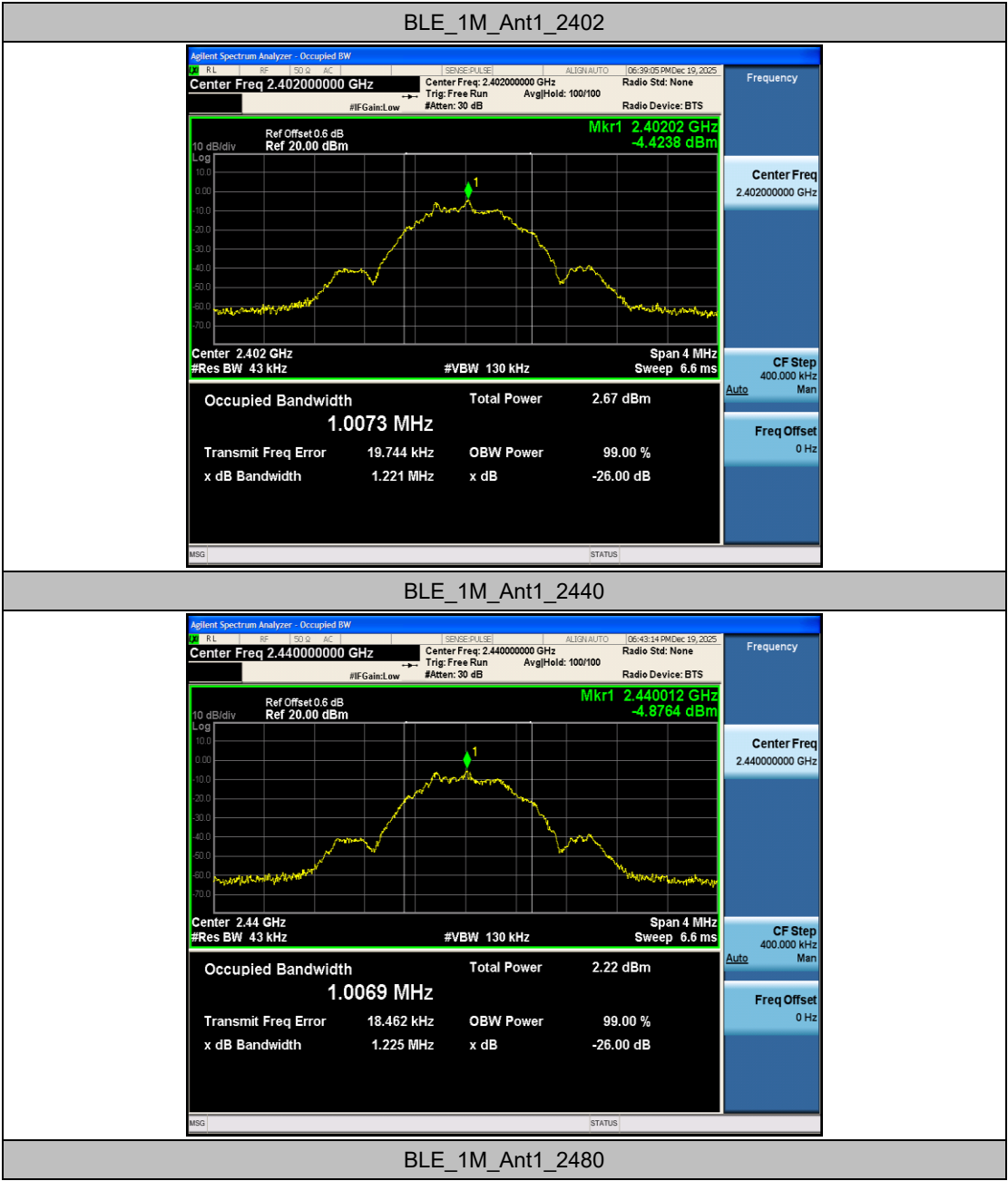


Appendix B: Occupied Channel Bandwidth

Test Result

TestMode	Antenna	Freq(MHz)	OCB [MHz]	FL[MHz]	FH[MHz]	Limit[MHz]	Verdict
BLE_1M	Ant1	2402	1.0073	2401.5161	2402.5234	---	---
		2440	1.0069	2439.5150	2440.5219	---	---
		2480	1.0030	2479.5186	2480.5216	---	---

Test Graphs





Appendix C: Maximum conducted output power

Test Result Peak

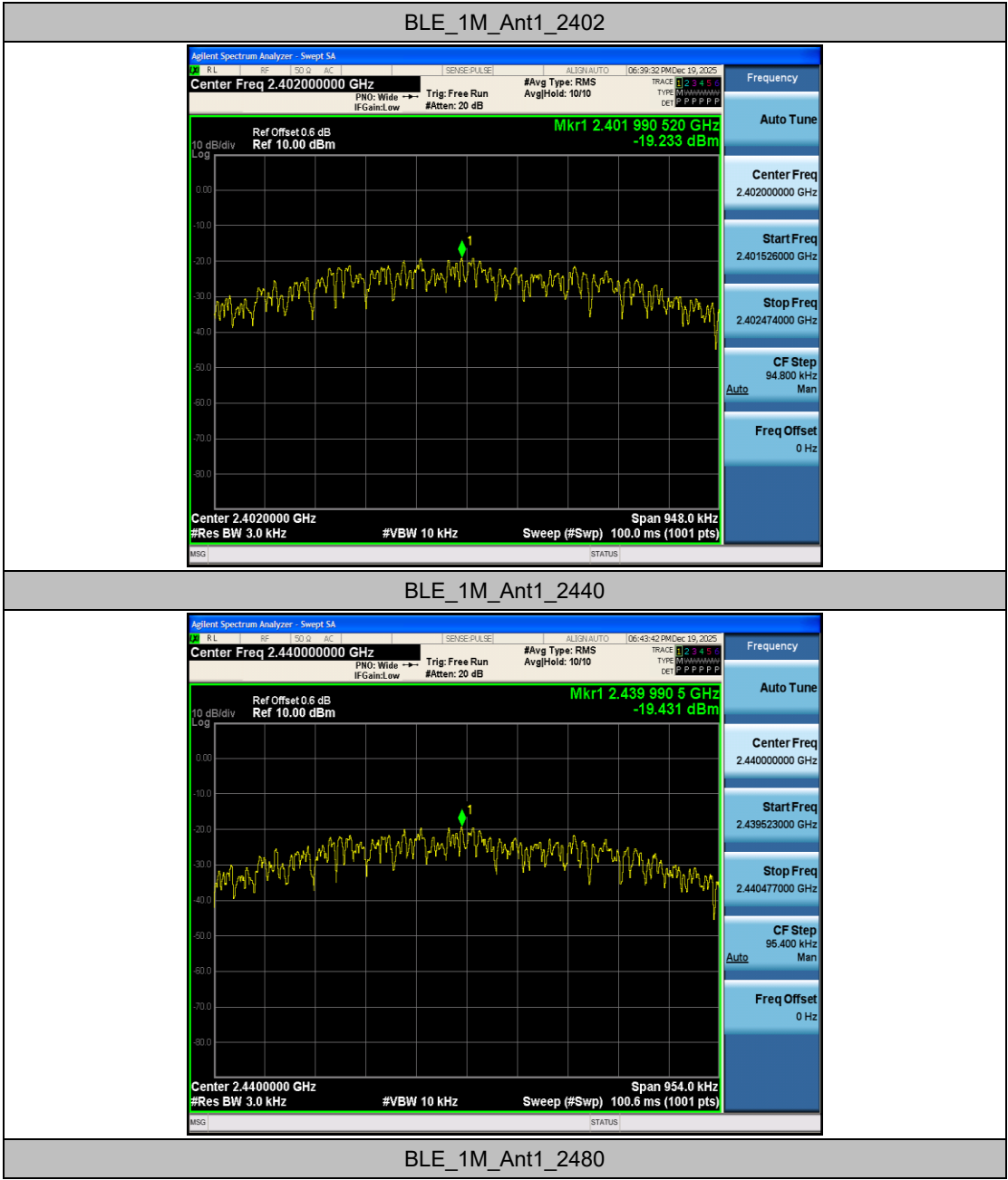
TestMode	Antenna	Freq(MHz)	Conducted Peak Power[dBm]	Conducted Limit[dBm]	Verdict
BLE_1M	Ant1	2402	-3.37	≤30	PASS
		2440	-3.69	≤30	PASS
		2480	-3.73	≤30	PASS

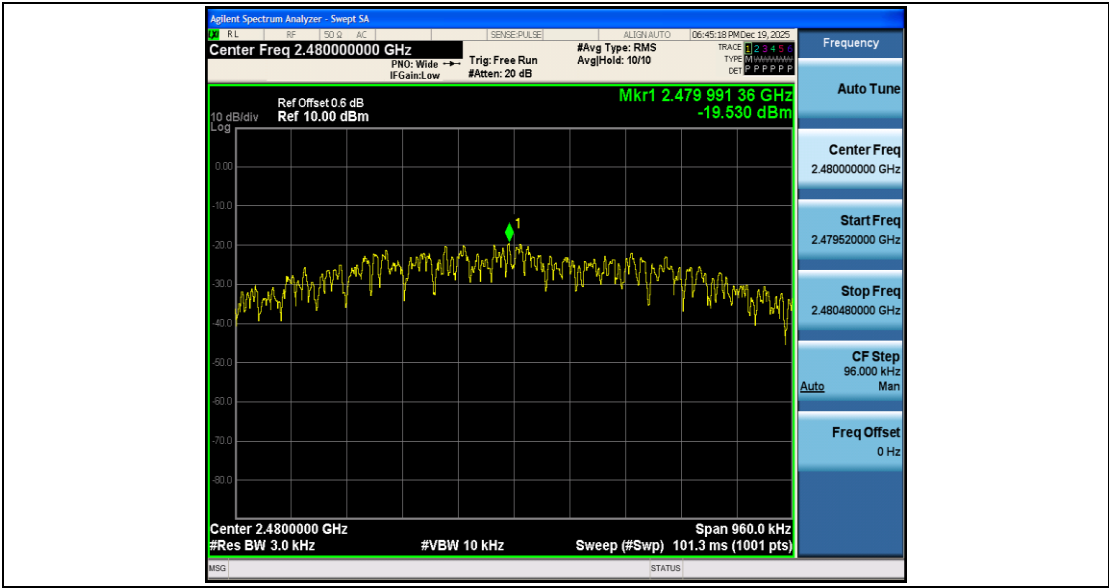
Appendix D: Maximum power spectral density

Test Result

TestMode	Antenna	Freq(MHz)	Result[dBm/3kHz]	Limit[dBm/3kHz]	Verdict
BLE_1M	Ant1	2402	-19.23	≤8.00	PASS
		2440	-19.43	≤8.00	PASS
		2480	-19.53	≤8.00	PASS

Test Graphs



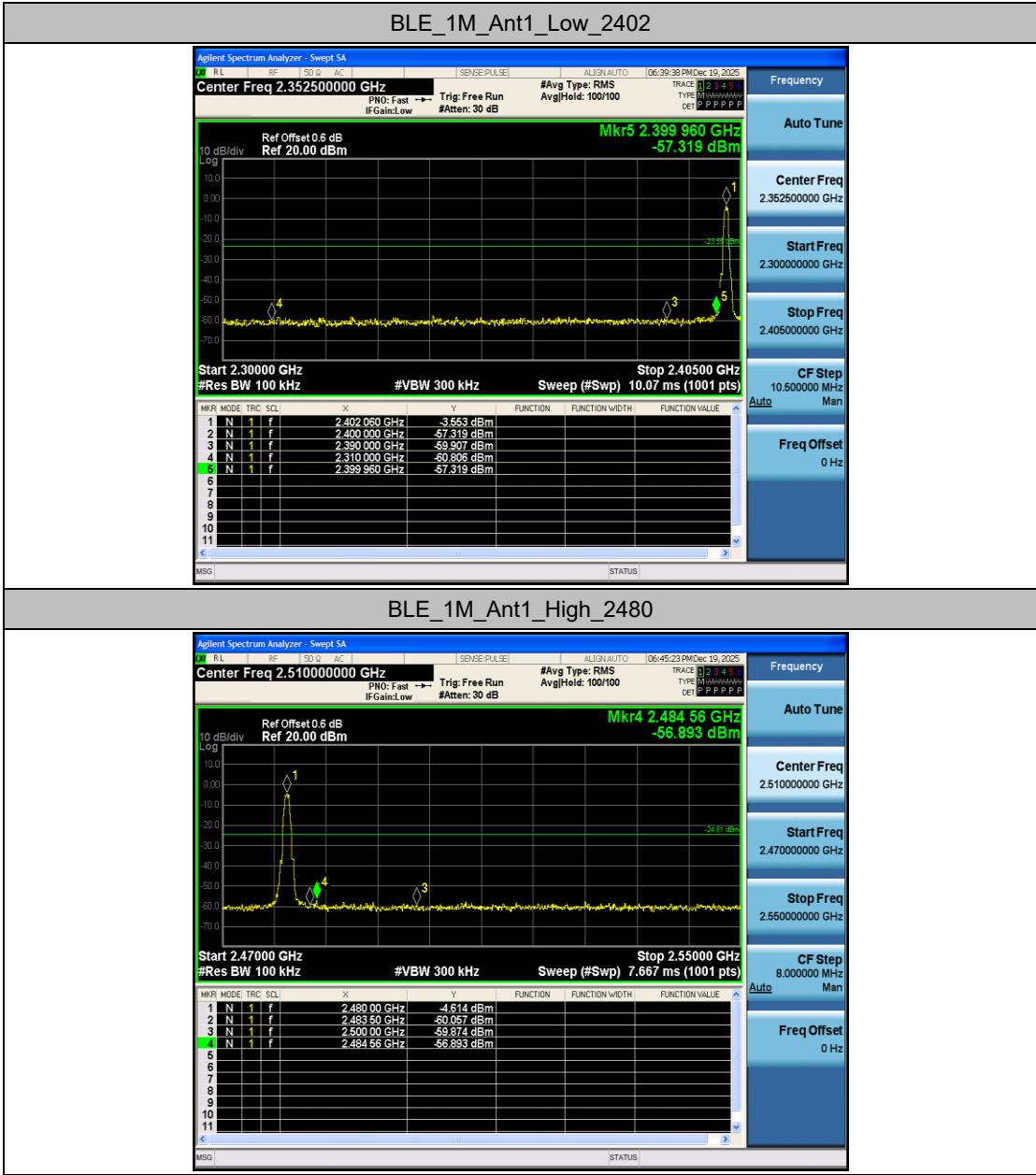


Appendix E: Band edge measurements

Test Result

TestMod e	Antenn a	ChNam e	Freq(MHz)	RefLevel[dBm]	Result[dBm]	Limit[dBm]	Verdic t
BLE_1M	Ant1	Low	2402	-3.55	-57.32	≤-23.55	PASS
		High	2480	-4.61	-56.89	≤-24.61	PASS

Test Graphs

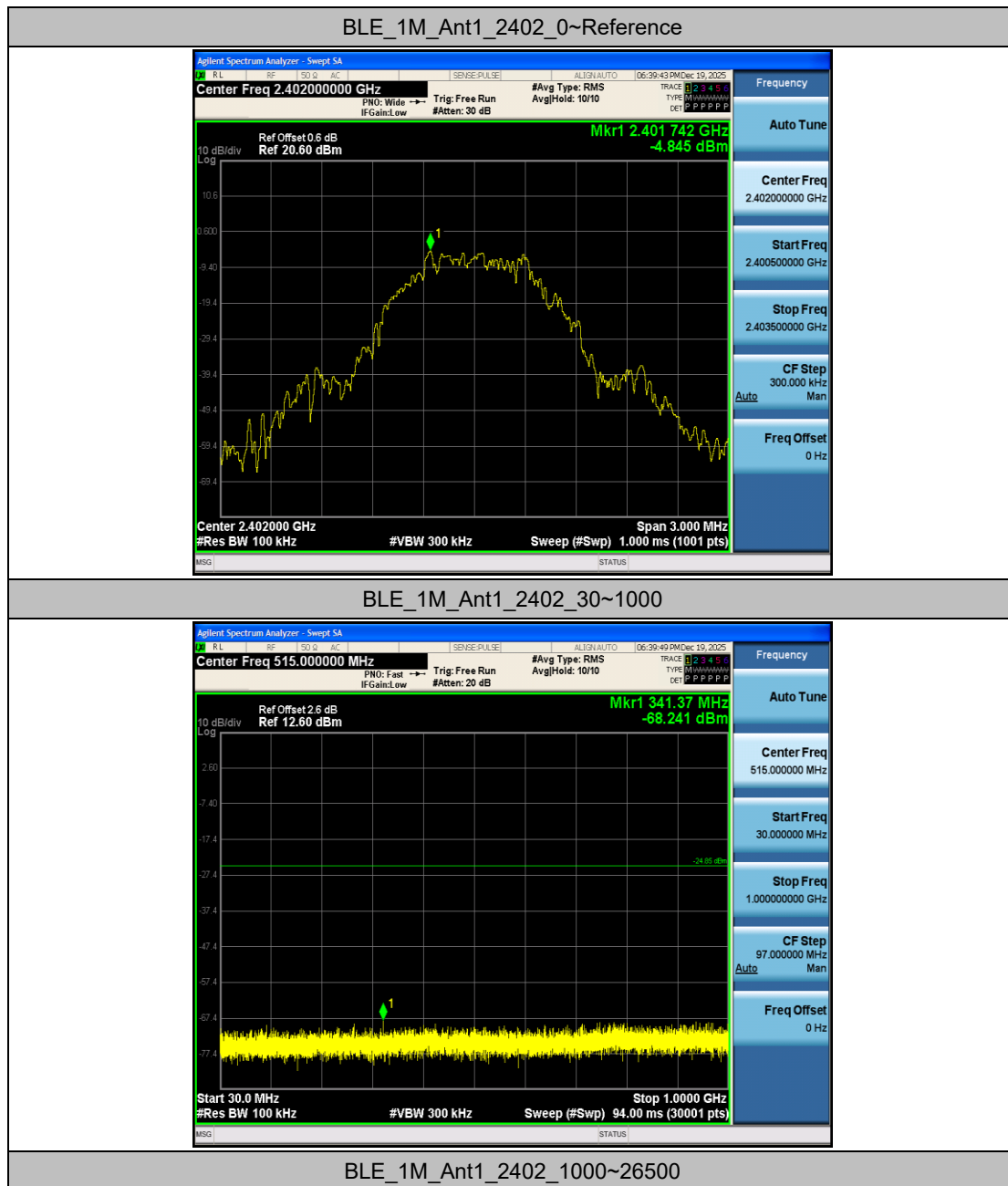


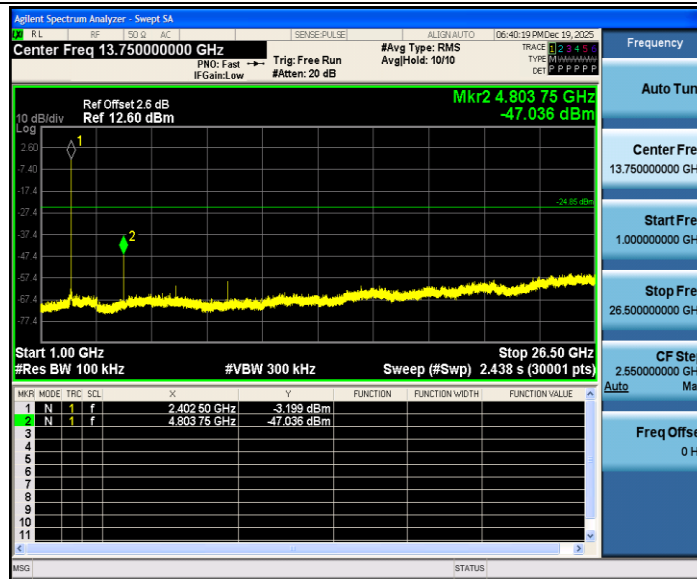
Appendix F: Conducted Spurious Emission

Test Result

TestMode	Antenna	Freq(MHz)	FreqRange [MHz]	RefLevel [dBm]	Result[dBm]	Limit[dBm]	Verdict
BLE_1M	Ant1	2402	Reference	-4.85	-4.85	---	PASS
			30~1000	-4.85	-68.24	≤-24.85	PASS
			1000~26500	-4.85	-47.04	≤-24.85	PASS
		2440	Reference	-5.52	-5.52	---	PASS
			30~1000	-5.52	-45.65	≤-25.52	PASS
			1000~26500	-5.52	-45.83	≤-25.52	PASS
		2480	Reference	-4.35	-4.35	---	PASS
			30~1000	-4.35	-67.06	≤-24.35	PASS
			1000~26500	-4.35	-46.7	≤-24.35	PASS

Test Graphs

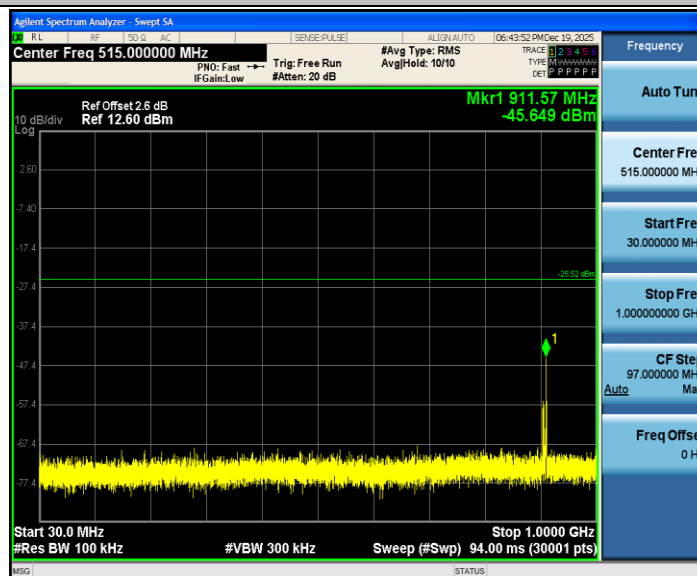




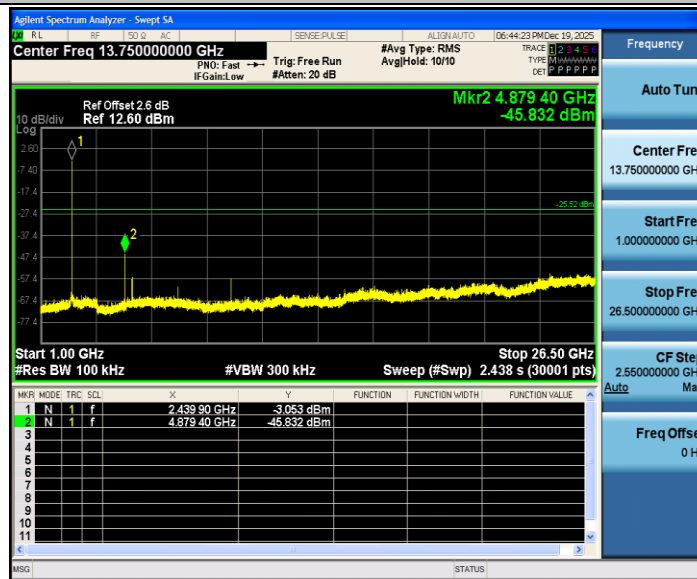
BLE_1M_Ant1_2440_0~Reference



BLE_1M_Ant1_2440_30~1000



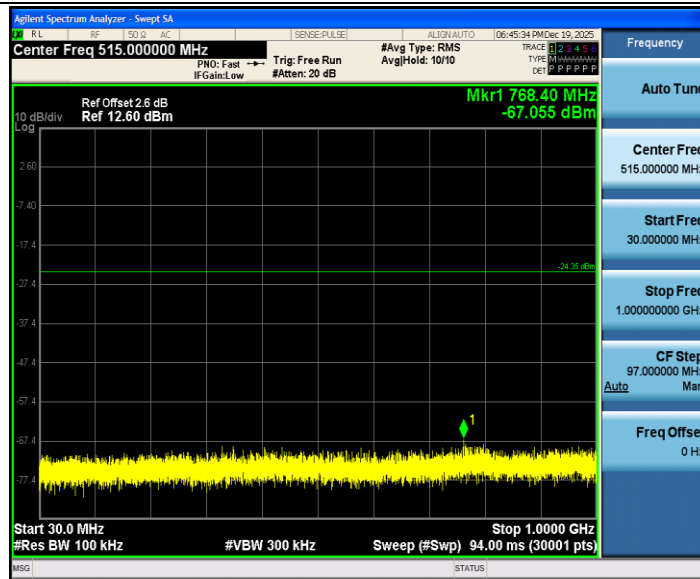
BLE_1M_Ant1_2440_1000~26500



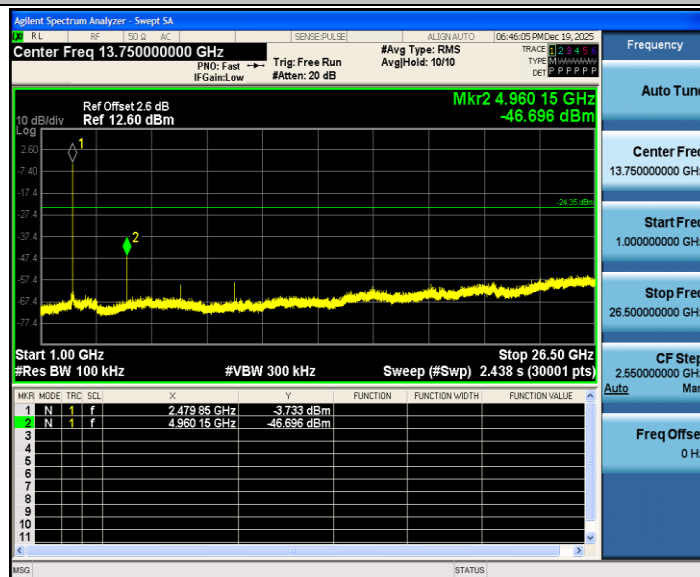
BLE_1M_Ant1_2480_0~Reference



BLE_1M_Ant1_2480_30~1000



BLE_1M_Ant1_2480_1000~26500



Appendix G: Duty Cycle

Test Result

TestMode	Antenna	Freq(MHz)	ON Time [ms]	Period [ms]	X	DC [%]	xFactor	Limit	Verdict
BLE_1M	Ant1	2402	0.41	0.63	0.6508	65.08	1.87	---	---
		2440	0.41	0.63	0.6508	65.08	1.87	---	---
		2480	0.41	0.63	0.6508	65.08	1.87	---	---

Test Graphs

